

Title (en)

FINGERPRINT CIRCUIT, FORCE TOUCH CONTROL METHOD AND DEVICE AND COMPUTER-READABLE STORAGE MEDIUM

Title (de)

FINGERABDRUCKSCHALTUNG, VERFAHREN UND VORRICHTUNG ZUR KRAFTBERÜHRUNGSSTEUERUNG UND COMPUTERLESBARES SPEICHERMEDIUM

Title (fr)

CIRCUIT D'EMPREINTE DIGITALE, PROCÉDÉ ET DISPOSITIF DE COMMANDE PAR FORCE TACTILE ET SUPPORT D'INFORMATIONS LISIBLE PAR ORDINATEUR

Publication

EP 3447617 A1 20190227 (EN)

Application

EP 18190711 A 20180824

Priority

CN 201710739867 A 20170825

Abstract (en)

Disclosed are a fingerprint circuit, and a force touch control method and device. The fingerprint circuit includes a fingerprint circuit cover plate (101), a fingerprint sensor (102), a light source (103) and an optical sensing device (104). A specular reflection layer (1011) is arranged below the fingerprint circuit cover plate (101). The light source (103), the optical sensing device (104) and the fingerprint sensor (102) are positioned below the specular reflection layer (1011). The light source (103) and the optical sensing device (104) are positioned on two sides of the fingerprint sensor (102) respectively. Light emitted by the light source (103) passes through a gap between the fingerprint sensor (102) and the fingerprint circuit cover plate (101) to irradiate the specular reflection layer (1011), and is reflected to the optical sensing device (104) through the specular reflection layer (1011). The optical sensing device (104) converts the light reflected by the specular reflection layer (1011) into an electrical signal, and the electrical signal may be configured for force touch control.

IPC 8 full level

G06F 3/041 (2006.01); **G06K 9/00** (2006.01)

CPC (source: CN EP US)

G06F 3/0325 (2013.01 - US); **G06F 21/32** (2013.01 - EP US); **G06V 40/1306** (2022.01 - EP US); **G06V 40/1318** (2022.01 - CN US); **G06V 40/1329** (2022.01 - US); **H01L 27/14643** (2013.01 - EP US)

Citation (search report)

- [XYI] CN 106445242 A 20170222 - BEIJING MI MOBILE SOFTWARE CO LTD
- [YA] KR 20020037485 A 20020522 - SHIN SEUNG JUNG [KR], et al
- [A] CN 104680162 A 20150603 - GUANGDONG LITE ARRAY CO LTD

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3447617 A1 20190227; **EP 3447617 B1 20230308**; CN 107506730 A 20171222; CN 107506730 B 20210629; US 10936707 B2 20210302; US 2019064989 A1 20190228

DOCDB simple family (application)

EP 18190711 A 20180824; CN 201710739867 A 20170825; US 201816111794 A 20180824